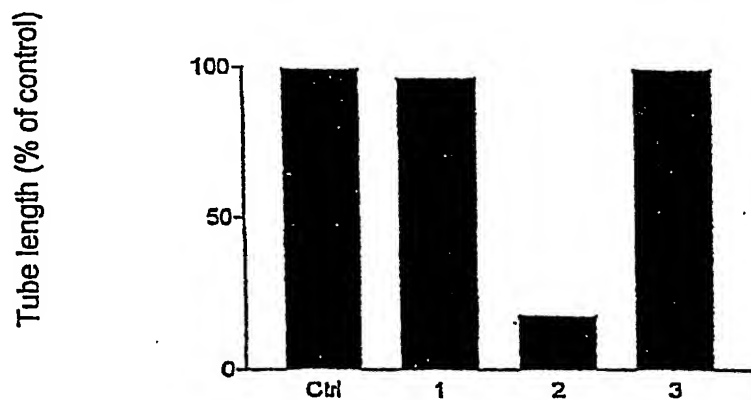
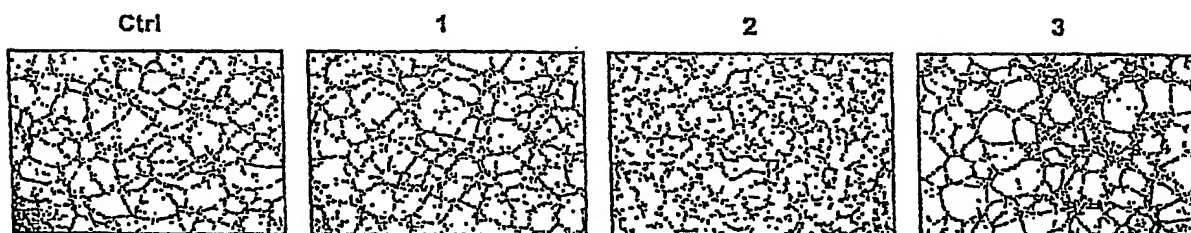


Figure 1A

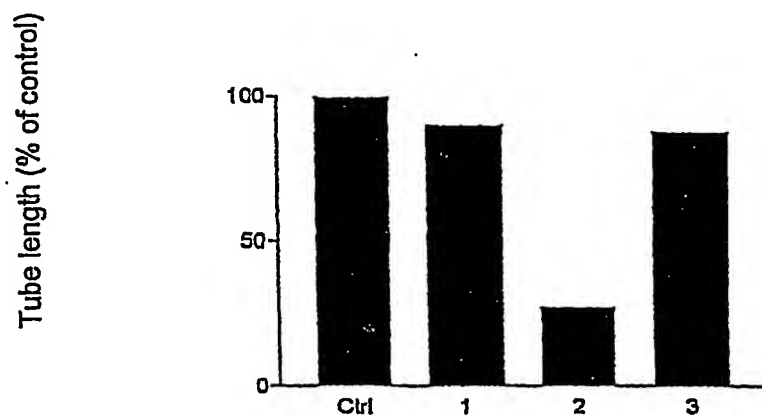
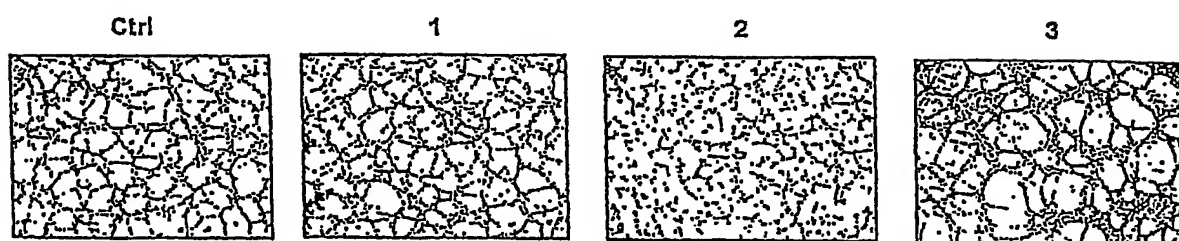
Effect of different supernatants of lactic acid bacteria on the formation of capillary structures by HUVEC cells



1. Supernatant of lactic acid bacteria
2. Concentrated supernatant of lactic acid bacteria (molecules > 5 000 kDa)
3. Filtrate of lactic acid bacteria (molecules  $\leq$  5 000 kDa)

Figure 1B

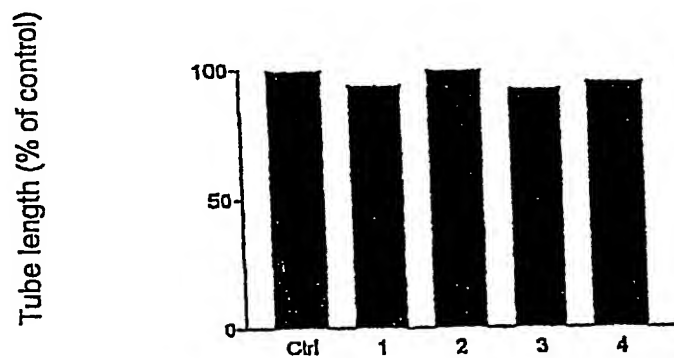
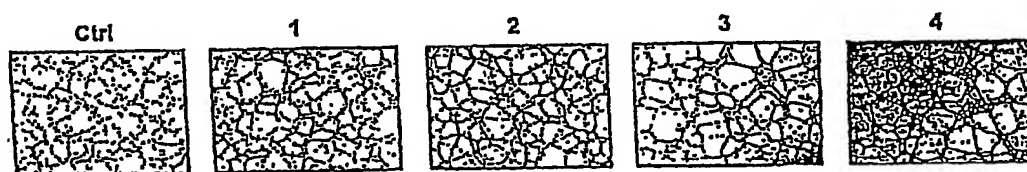
Effect of different supernatants of lactic acid bacteria on the formation of capillary structure by HUVEC cells



1. Supernatant of lactic acid bacteria
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3. Filtrate of lactic acid bacteria (molecules  $\leq$  5 000 kDa)

Figure 2A

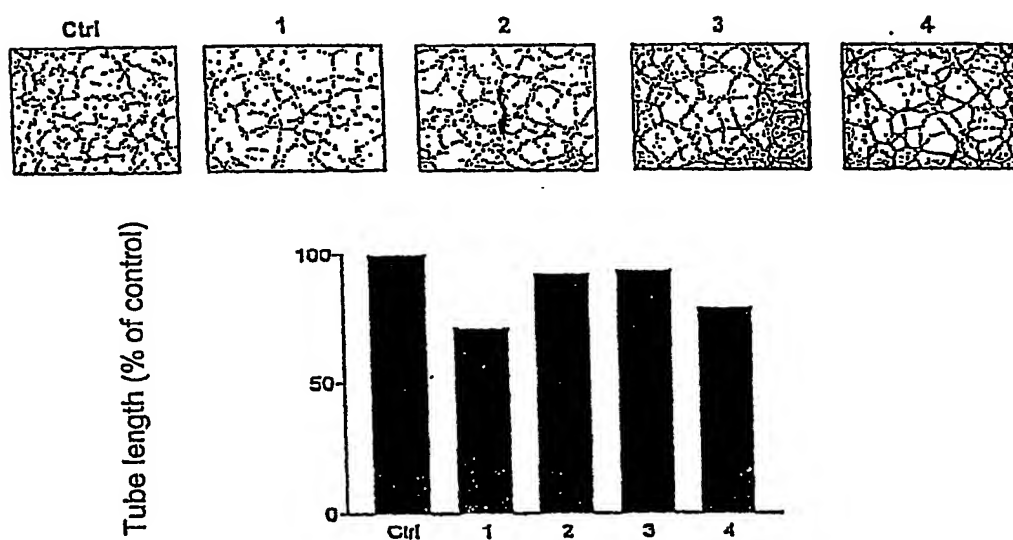
Effect of different BIO-K PLUS supernatants on the formation of the capillary structure by HUVEC cells



1. Supernatant of BIO-K PLUS (with milk product)
2. Supernatant of BIO-K PLUS (without milk product)
3. Supernatant of BIO-K PLUS (with milk product) pH7.2
4. Supernatant of BIO-K PLUS (without milk product) pH7.2

Figure 2B

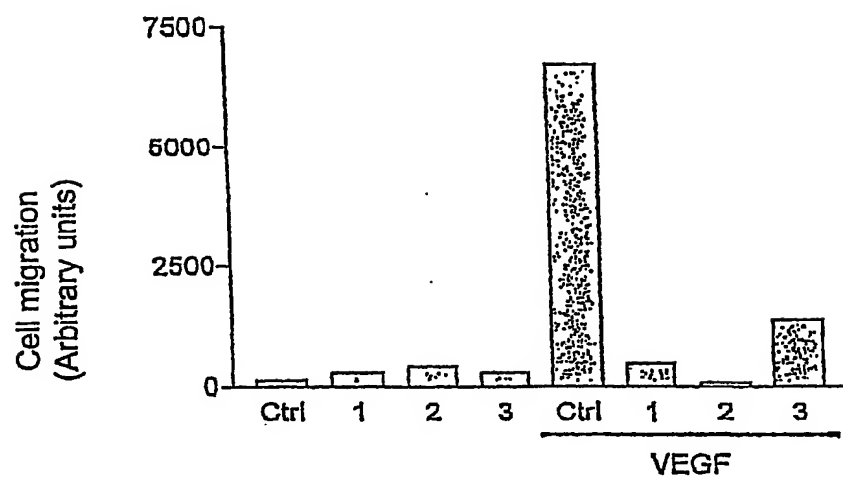
Effect of different BIO-K PLUS supernatants on the formation of the capillary structure by HUVEC cells



1. Supernatant of BIO-K PLUS (with milk product)
2. Supernatant of BIO-K PLUS (without milk product)
3. Supernatant of BIO-K PLUS (with milk product) pH7.2
4. Supernatant of BIO-K PLUS (without milk product) pH7.2

Figure 3A

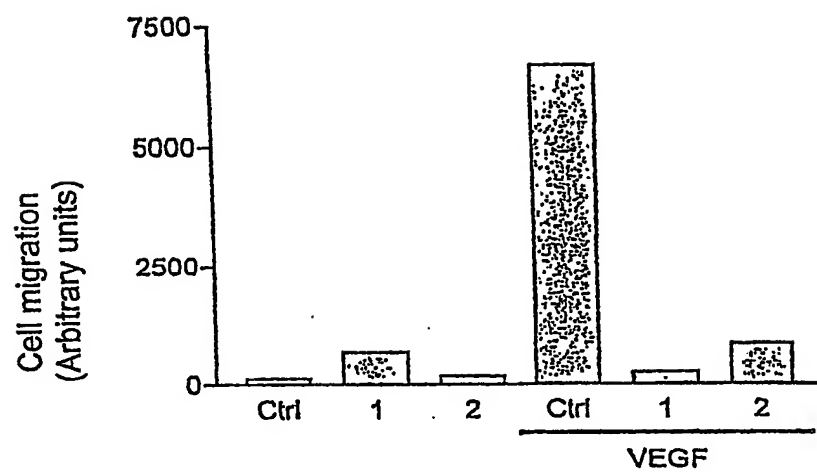
Effect of lactic acid bacteria supernatant on the migration of BAEC cells



1. Supernatant of lactic acid bacteria
2. Concentrated supernatant of lactic acid bacteria (molecules > 5 000 kDa)
3. Filtrate of lactic acid bacteria (molecules  $\leq$  5 000 kDa)

Figure 3B

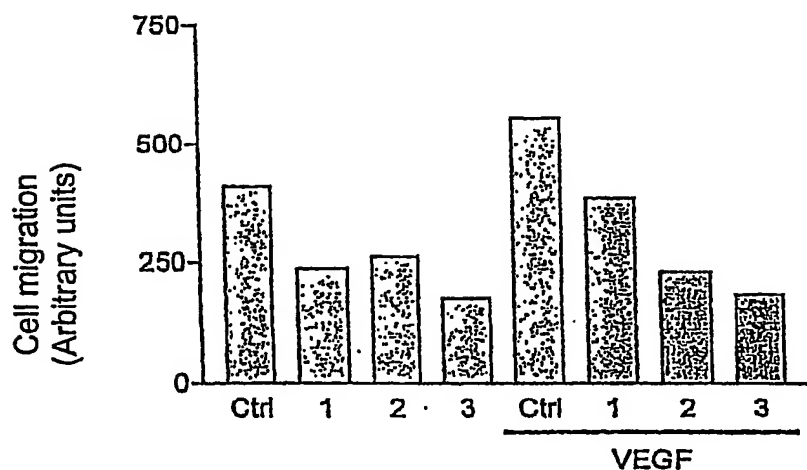
Effect of BIO-K PLUS supernatant on the migration of BAEC cells



1. BIO-K PLUS supernatant (with milk product)
2. BIO-K PLUS supernatant (without milk product)

Figure 4A

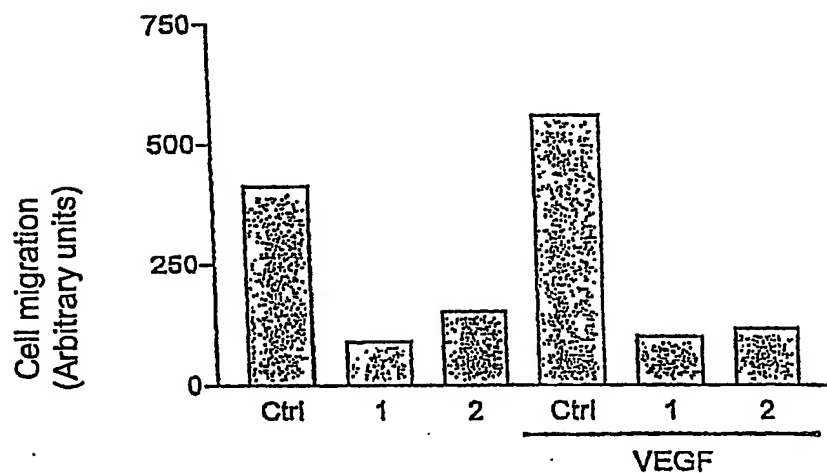
Effect of lactic acid bacteria supernatant on migration  
of HUVEC cells



1. Supernatant of lactic acid bacteria
2. Concentrated supernatant of lactic acid bacteria (molecules > 5 000 kDa)
3. Filtrate of lactic acid bacteria (molecules  $\leq$  5 000 kDa)

Figure 4B

Effect of BIO-K PLUS supernatant on migration  
of HUVEC cells



1. Supernatant of BIO-K PLUS (with milk product)
2. Supernatant of BIO-K PLUS (without milk product)



Figure 5A

Effect of BIO-K PLUS supernatant (with milk product)  
on migration of BAEC cells

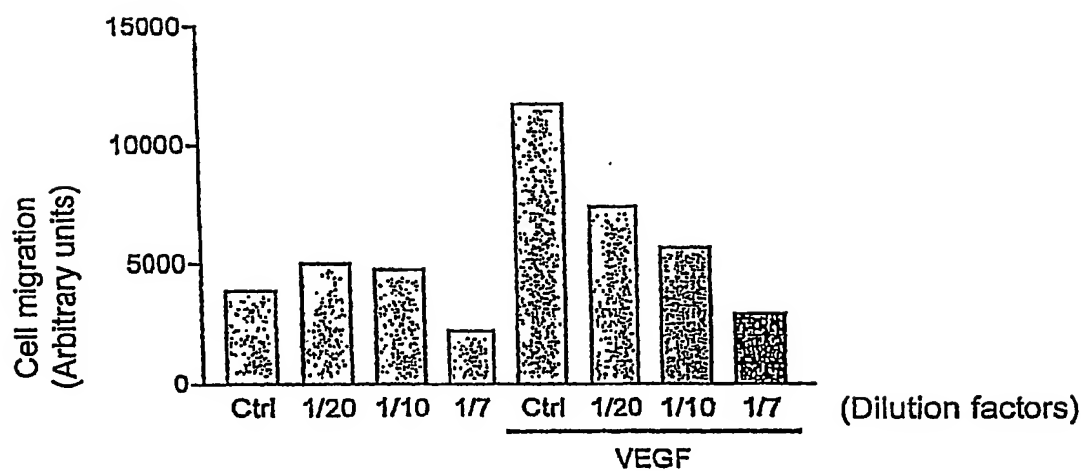


Figure 5B

Effect of BIO-K PLUS supernatant (without milk product) on migration of BAEC cells

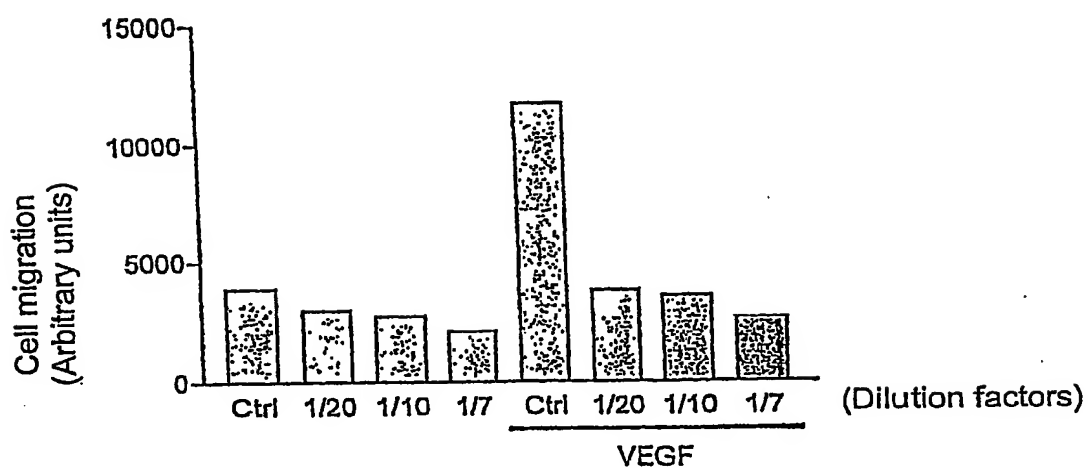
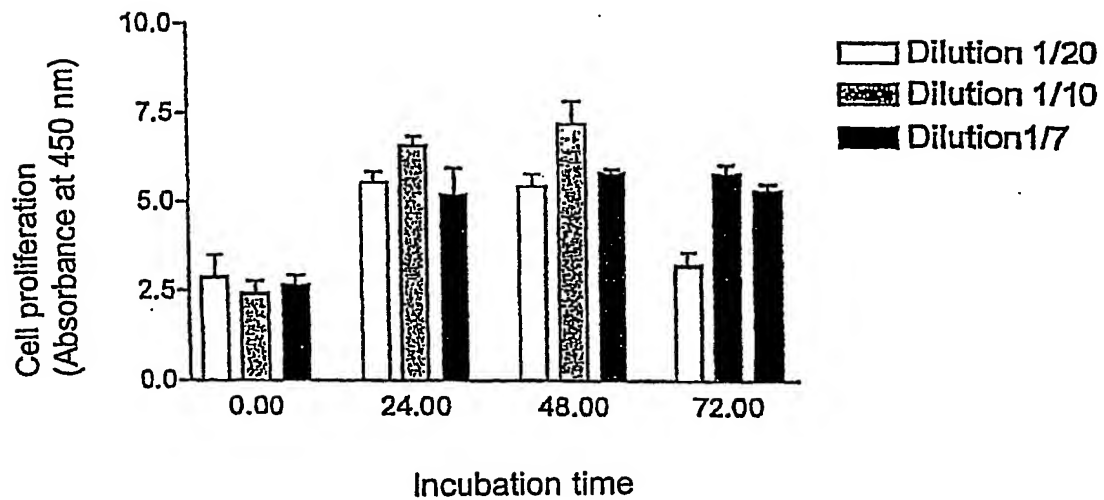


Figure 6A

Effect of BIO-K PLUS supernatant (with milk product) on HUVEC cells proliferation



12 / 36

Figure 6B

Effect of BIO-K PLUS supernatant (without milk product) on HUVEC cells proliferation

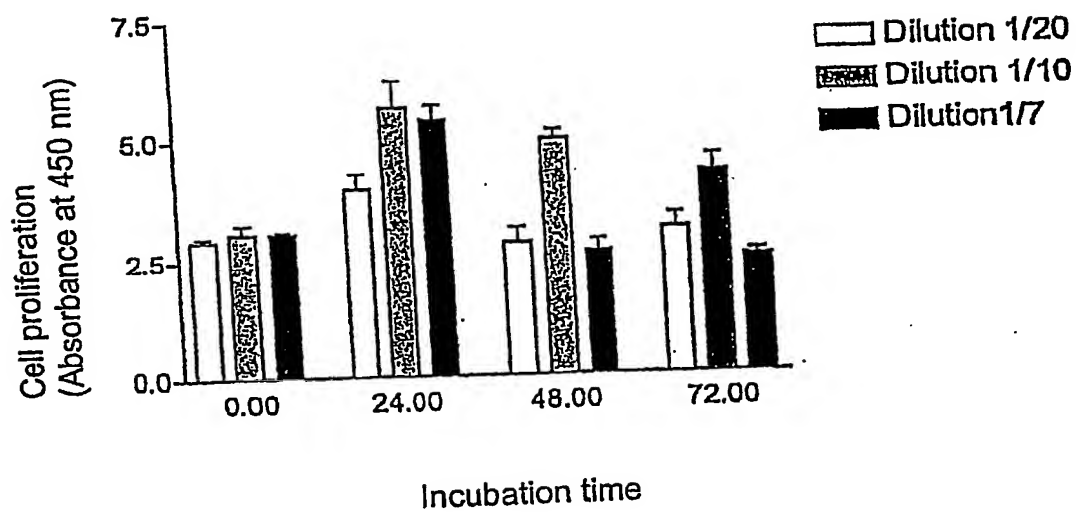


Figure 7A

Effect of BIO-K PLUS supernatant (with milk product) on the proliferation of HUVEC cells induced by bFGF

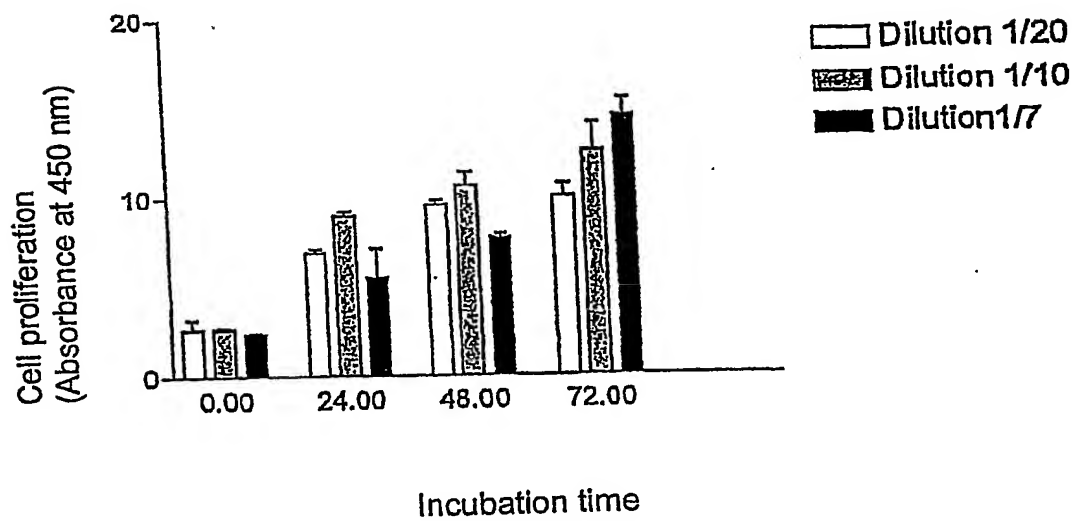


Figure 7B

Effect of BIO-K PLUS supernatant (without milk product) on the proliferation of HUVEC cells induced by bFGF

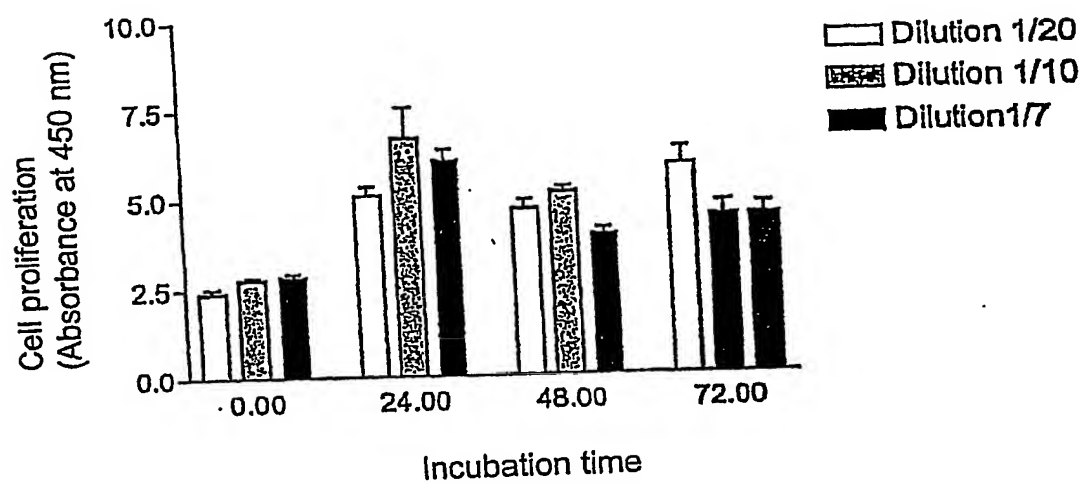


Figure 8A

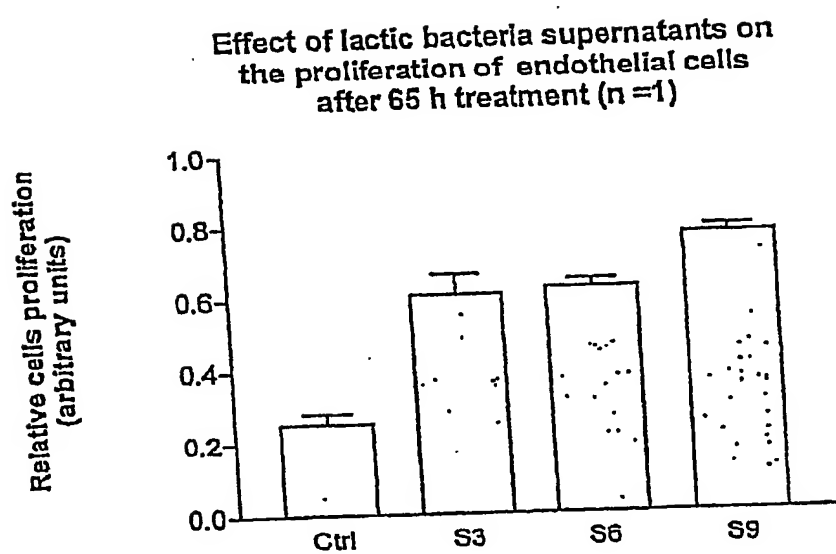


Figure 8B

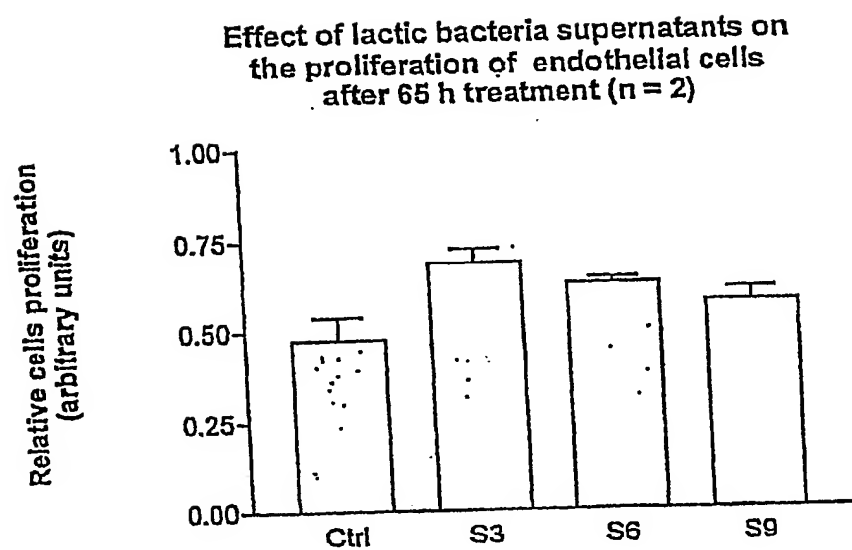




Figure 9

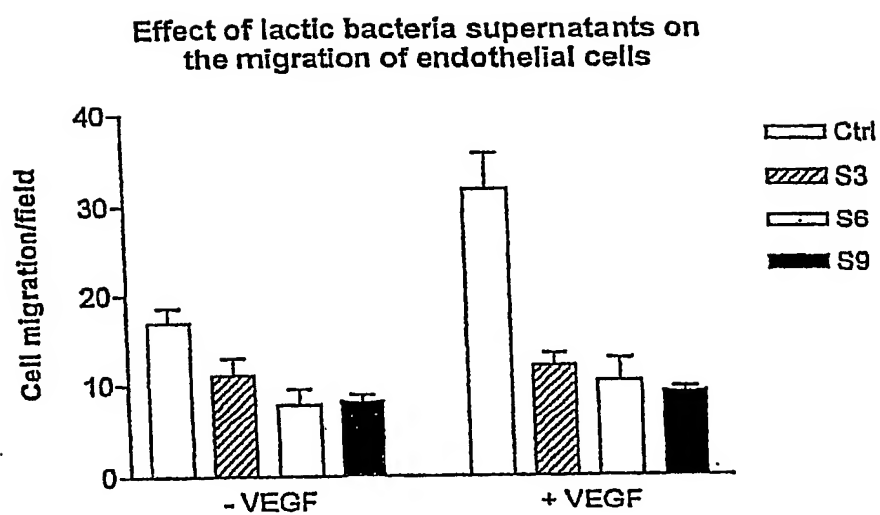


Figure 10A

Effect of the supernatants of the lactic bacteria on the tube formation by endothelial cells (n = 1)

A. HUVECs

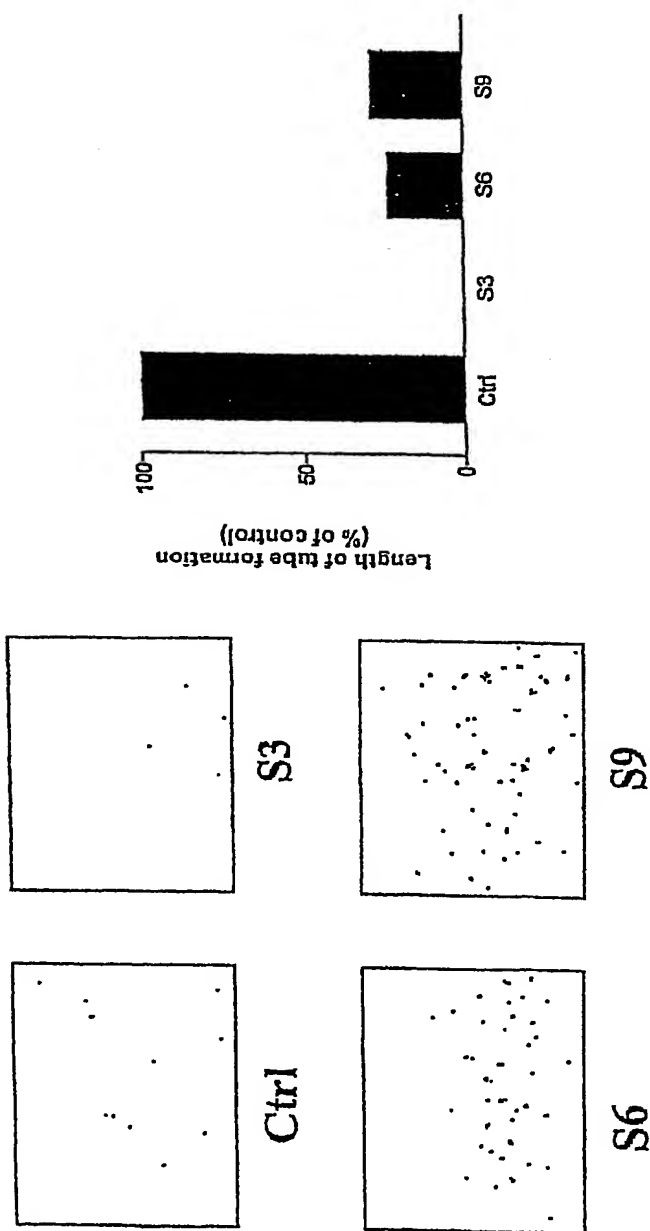


Figure 10B

Effect of the supernatants of the lactic bacteria on the tube formation by endothelial cells (n = 2)

B. HUVECs

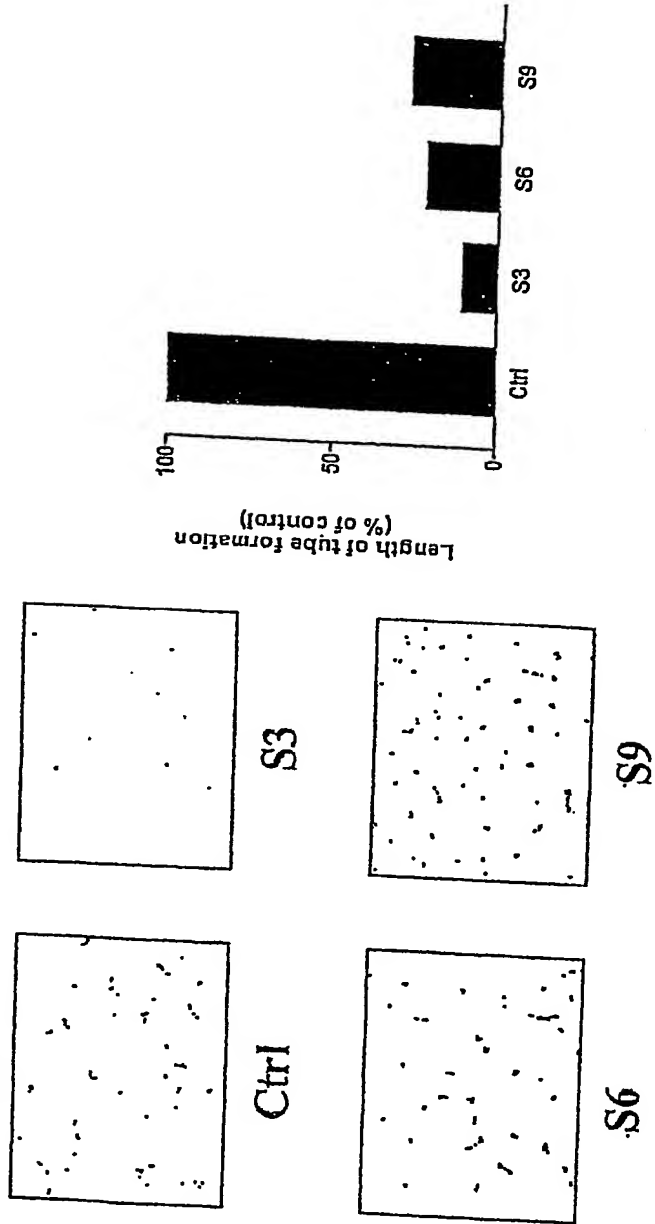


Figure 11A

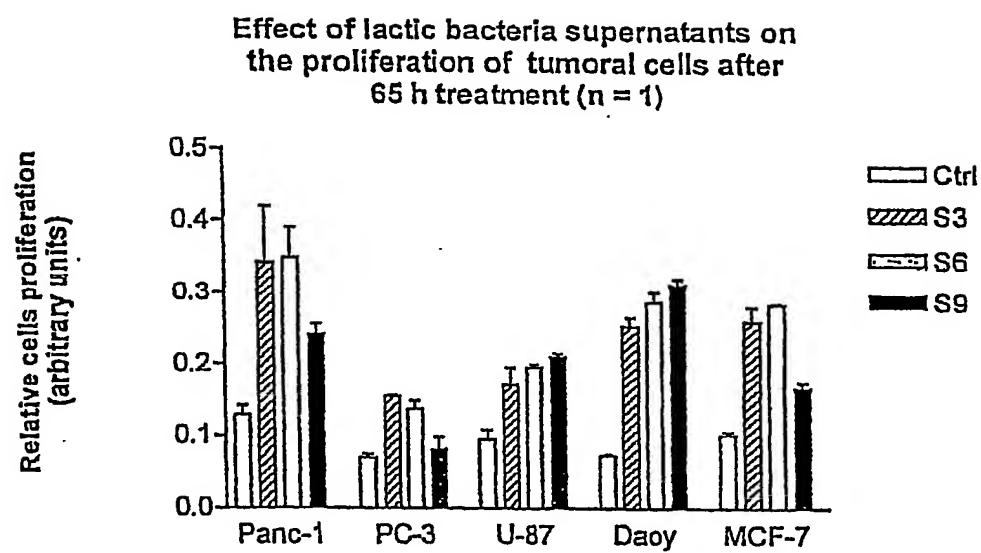


Figure 11B

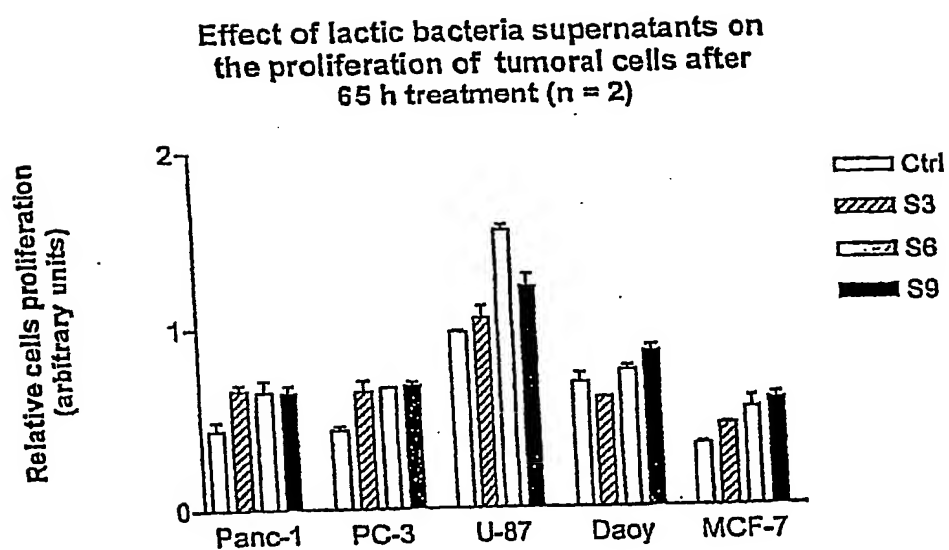
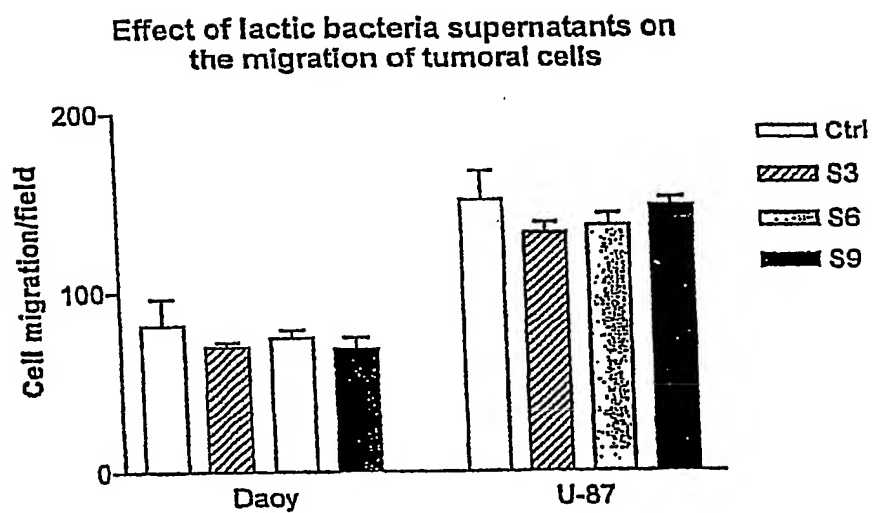


Figure 12



# Bio-K Plus Products

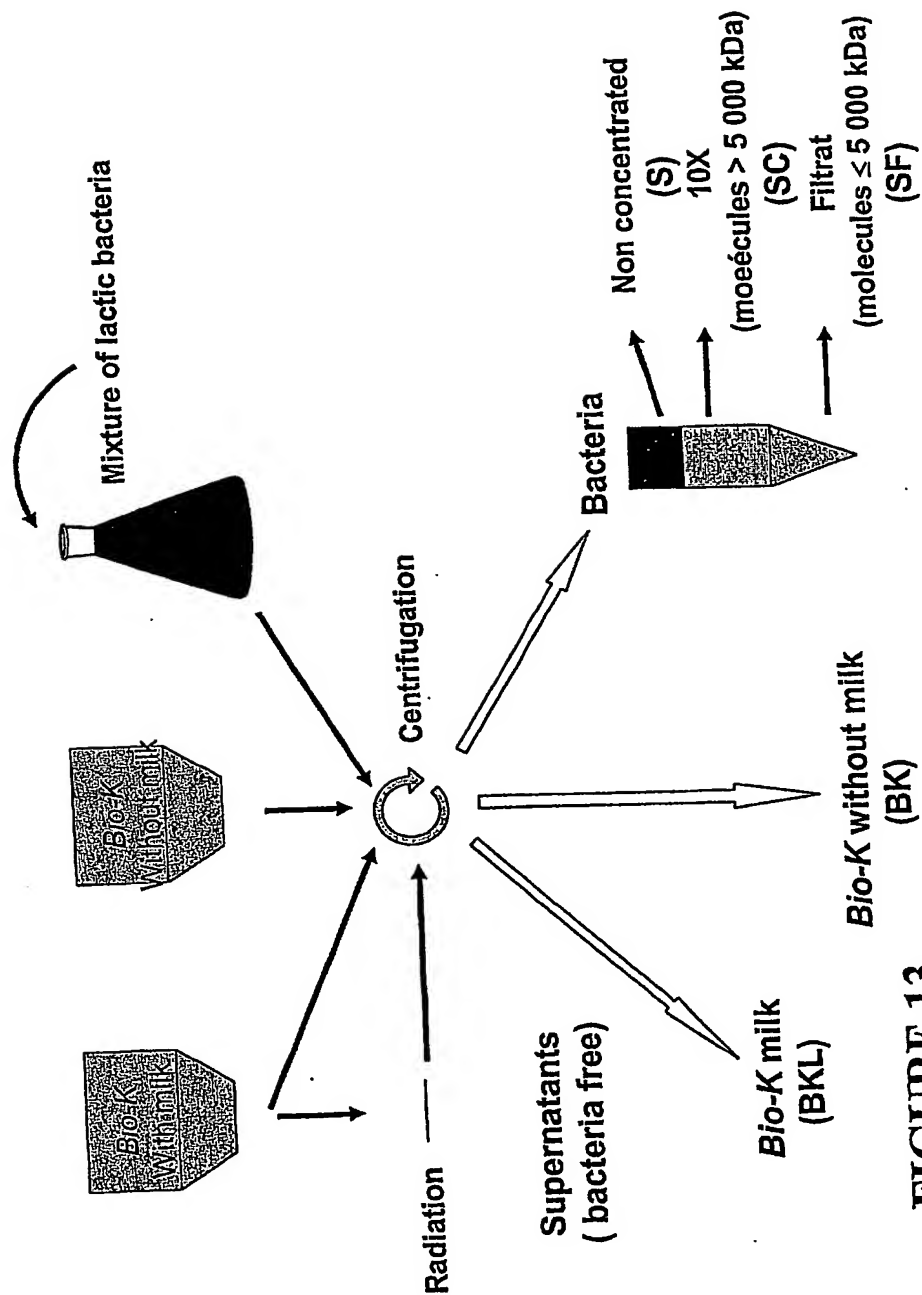


FIGURE 13

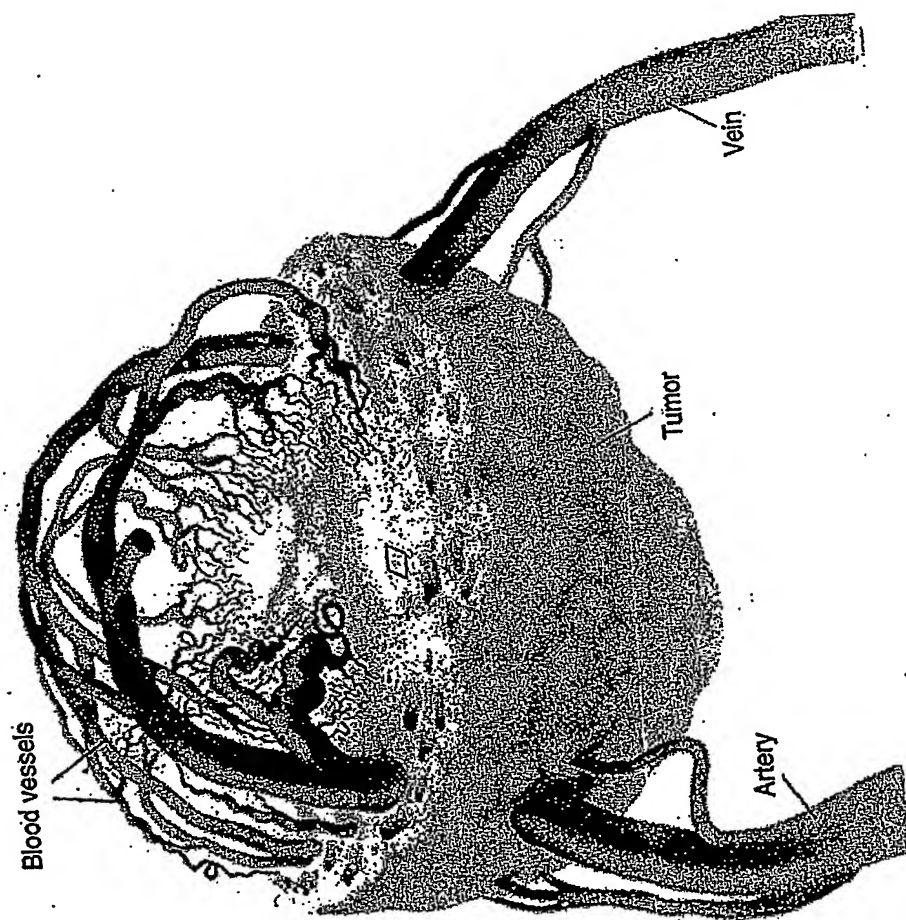
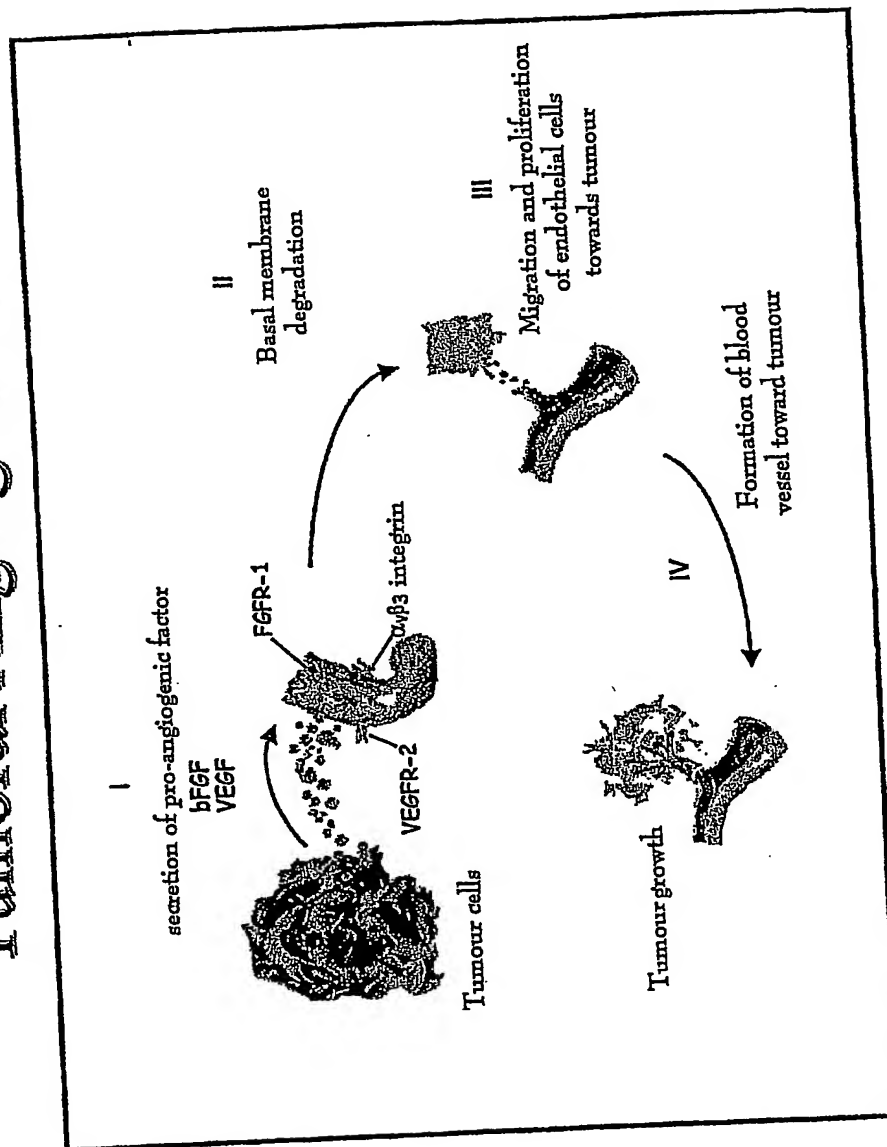


FIGURE 14



# Tumoral Angiogenesis

**FIGURE 15**

# Angiogenesis

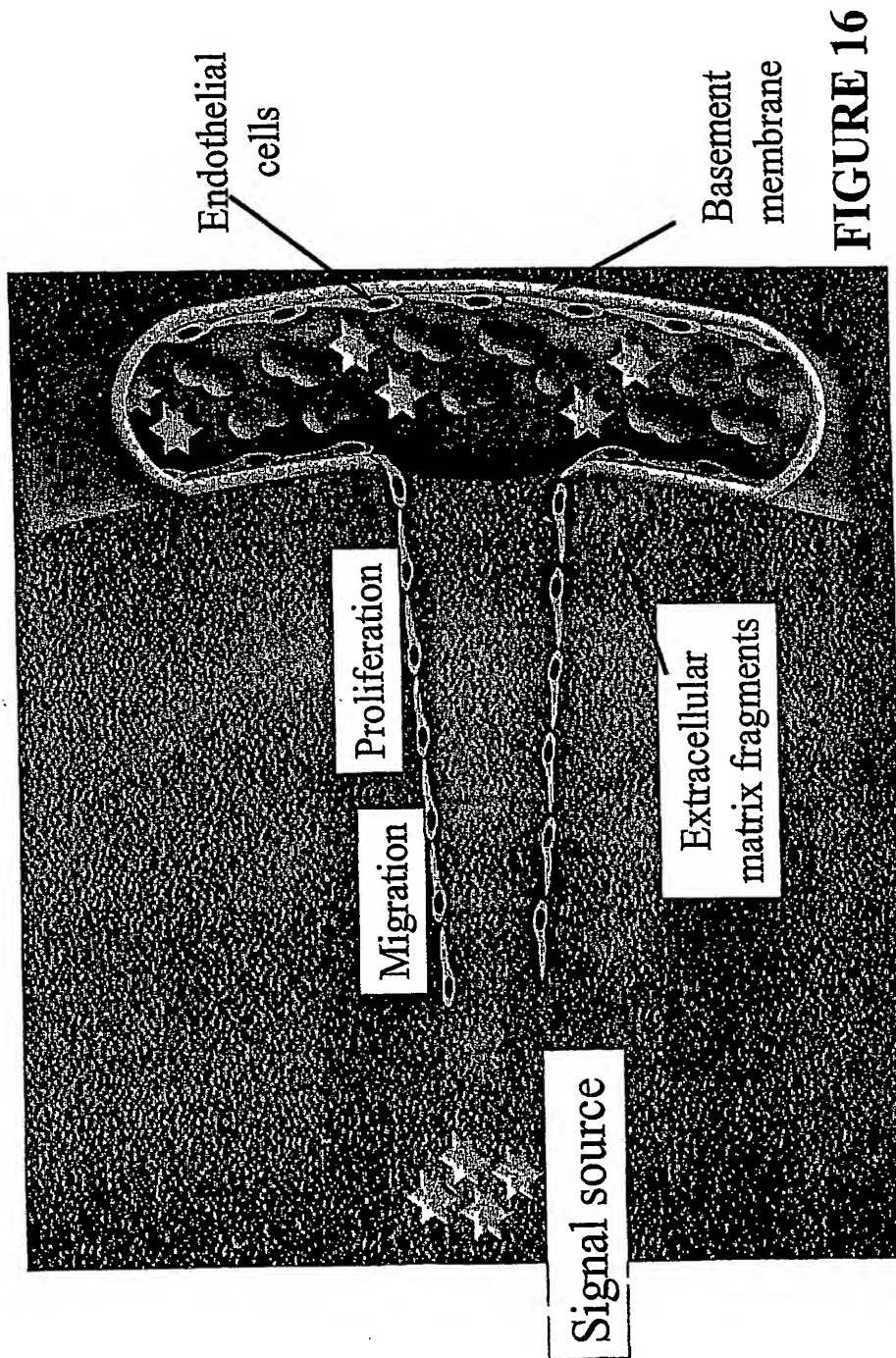
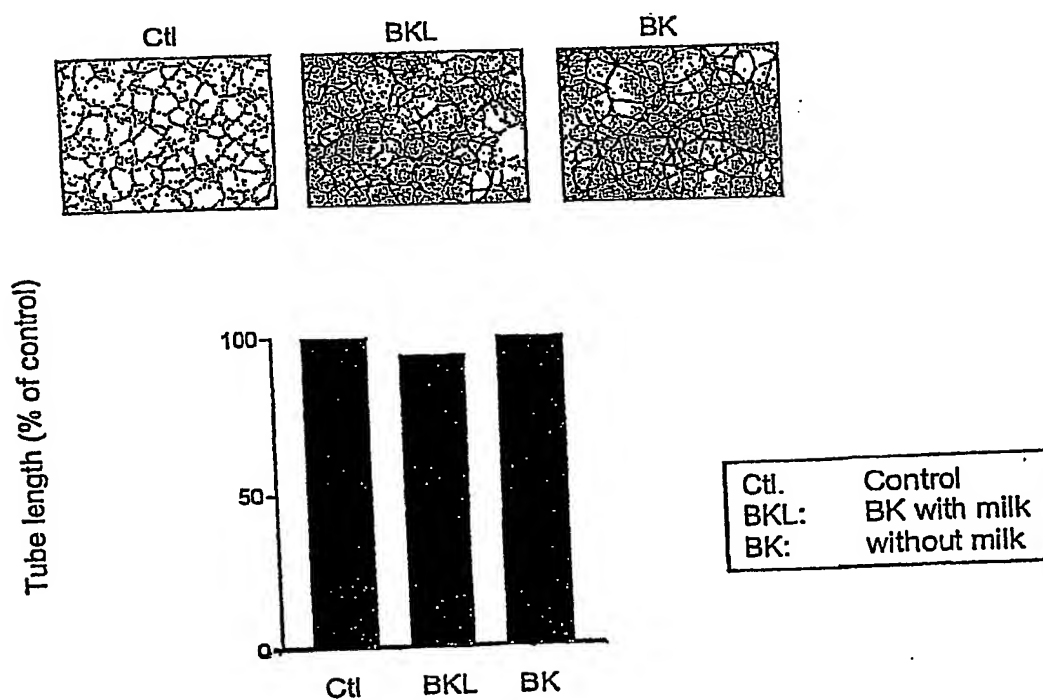


FIGURE 16

Figure 17

Effect of different supernatants of BLOK PLUS on the formation of capillary structures by endothelial cells (HUVEC)



# Migration Assay

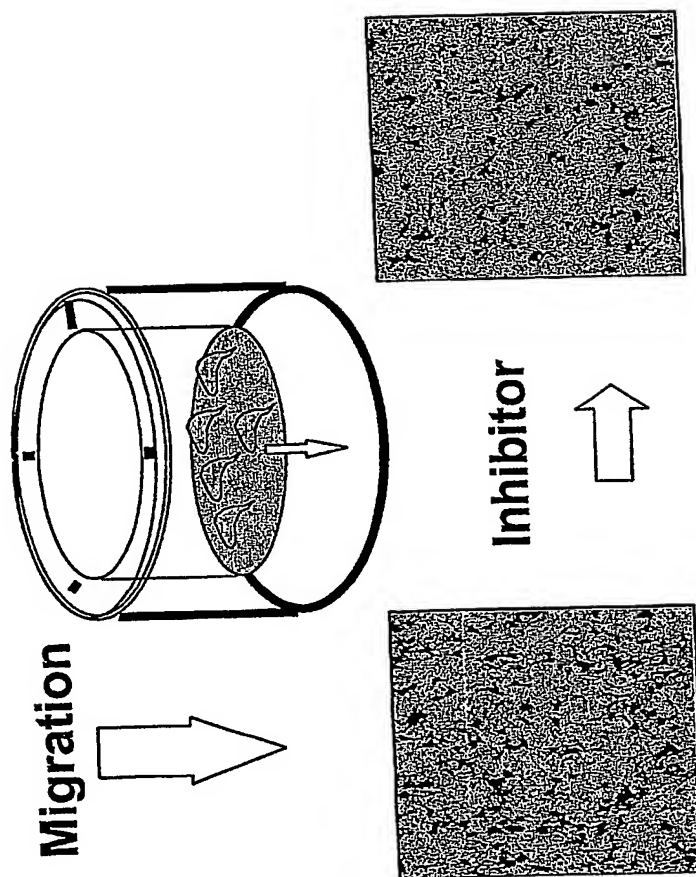


FIGURE 18

Effect of *Bio-K Plus* supernatants on cell migration: inhibition of endothelial cells

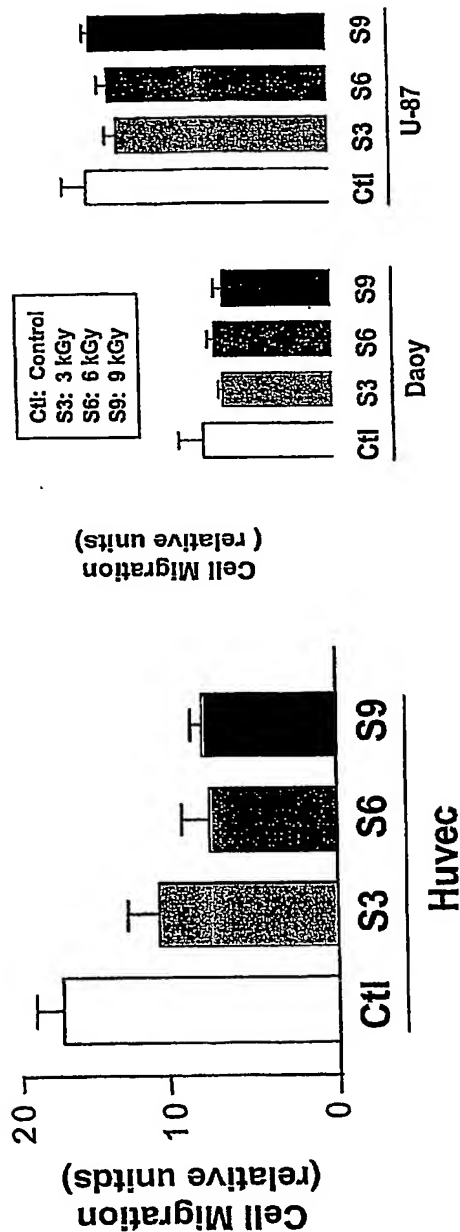


FIGURE 19

Effect of *Bio-K Plus* supernatants on  
BAECs cell migration

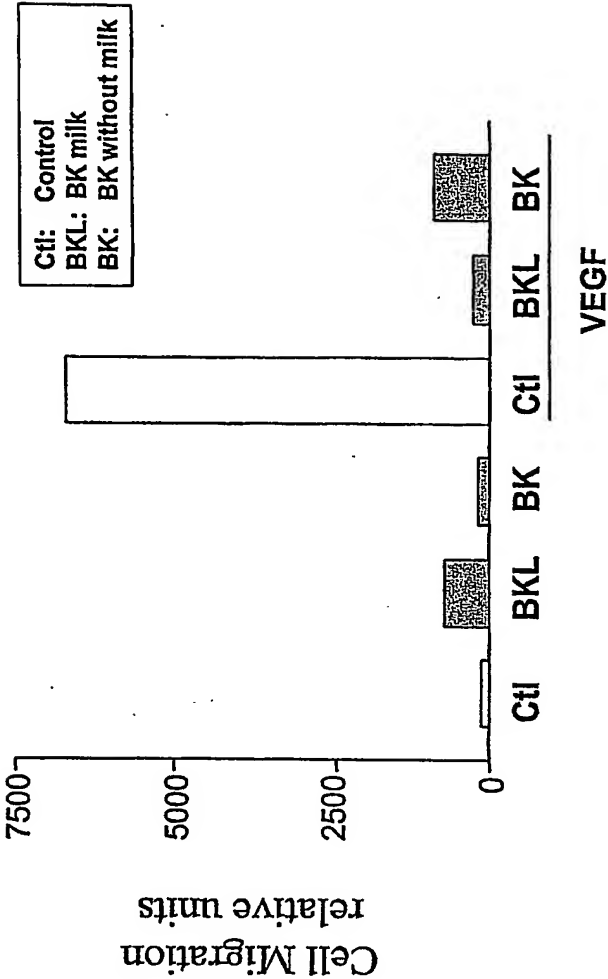
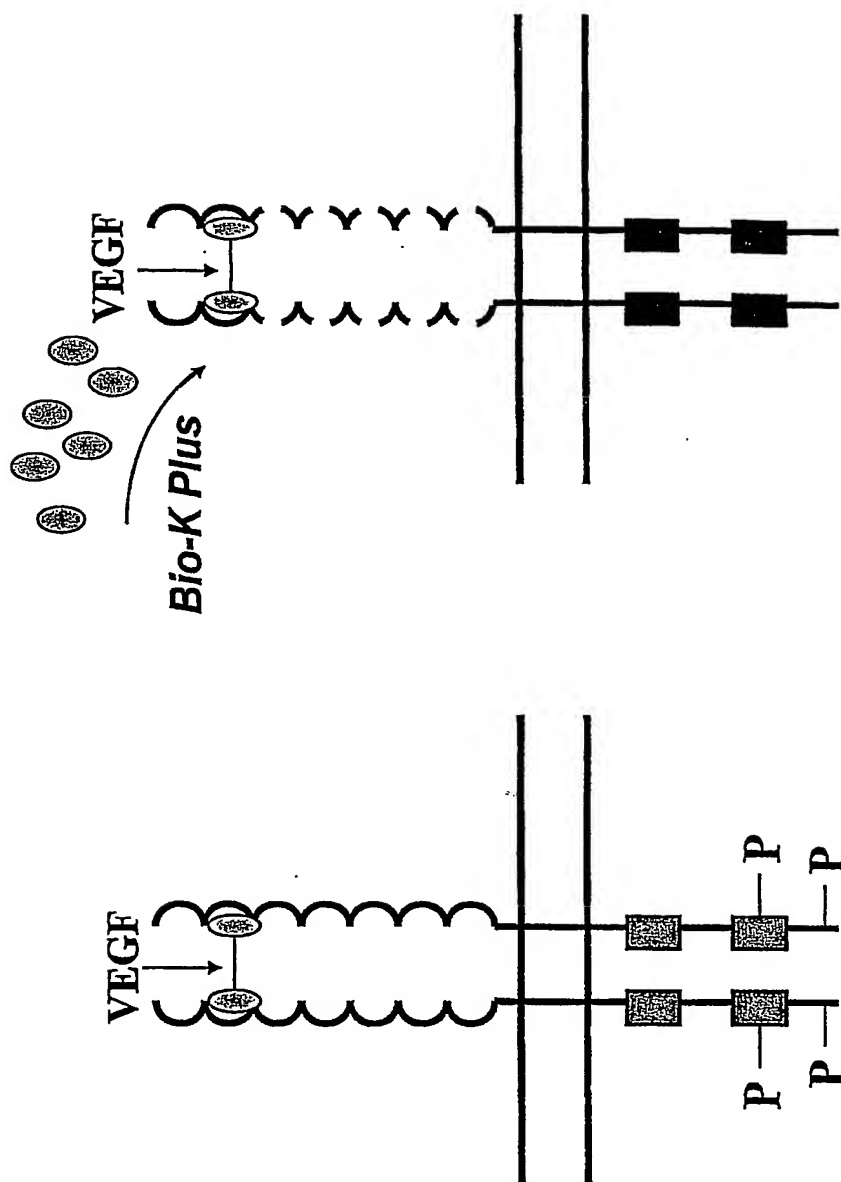


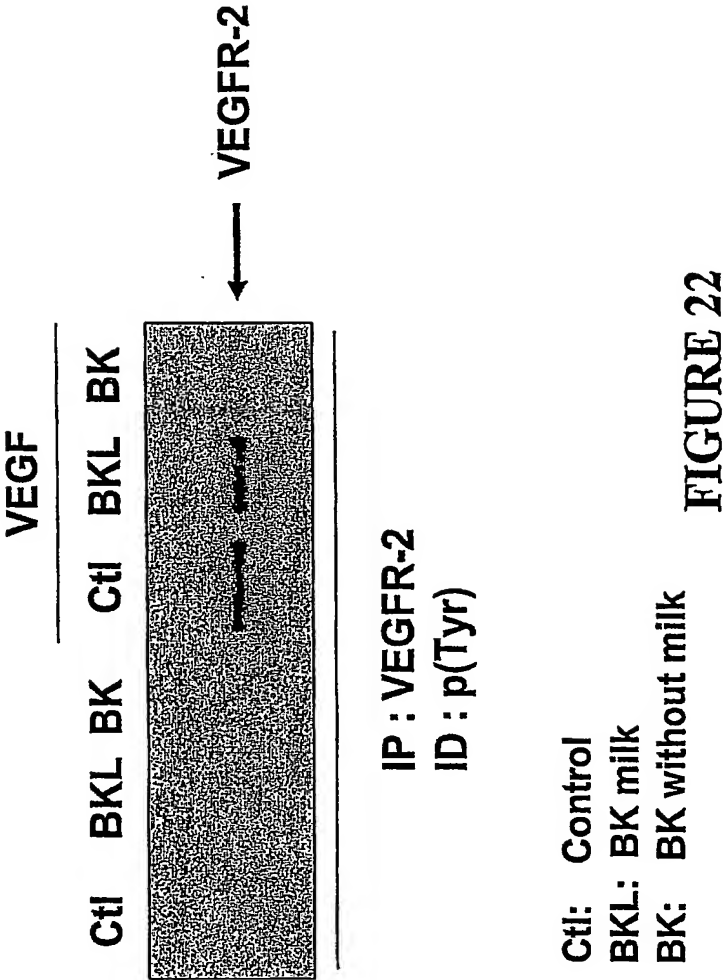
FIGURE 20

# Receptor phosphorylation



VEGFR-2 activation  
VEGFR-2 inactivation  
FIGURE 21

Effect of *Bio-K Plus* supernatant on  
VEGFR-2 phosphorylation





Effect of *Bio-K Plus* supernatant  
phosphorylation of protéine Erk by  
VEGF



FIGURE 23

Antagonist effect of *Bio-K Plus* supernatants  
on different receptors of growth factors

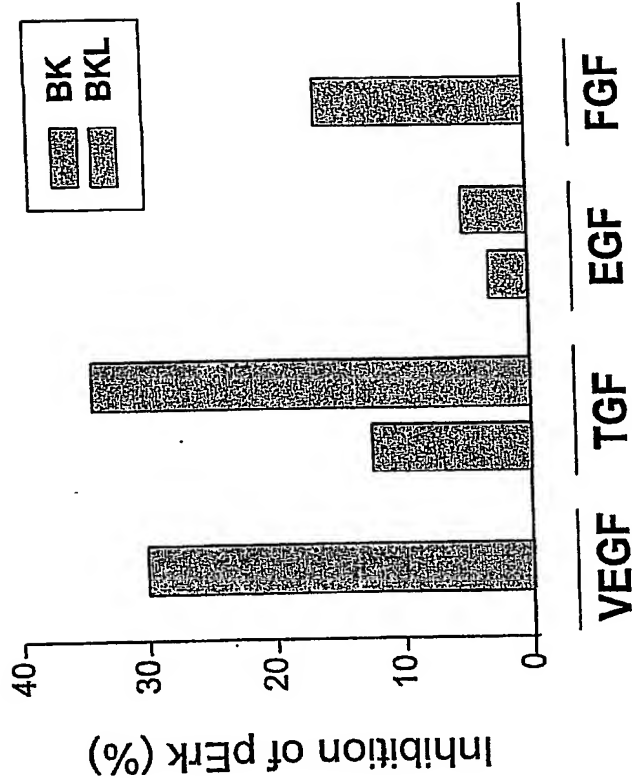
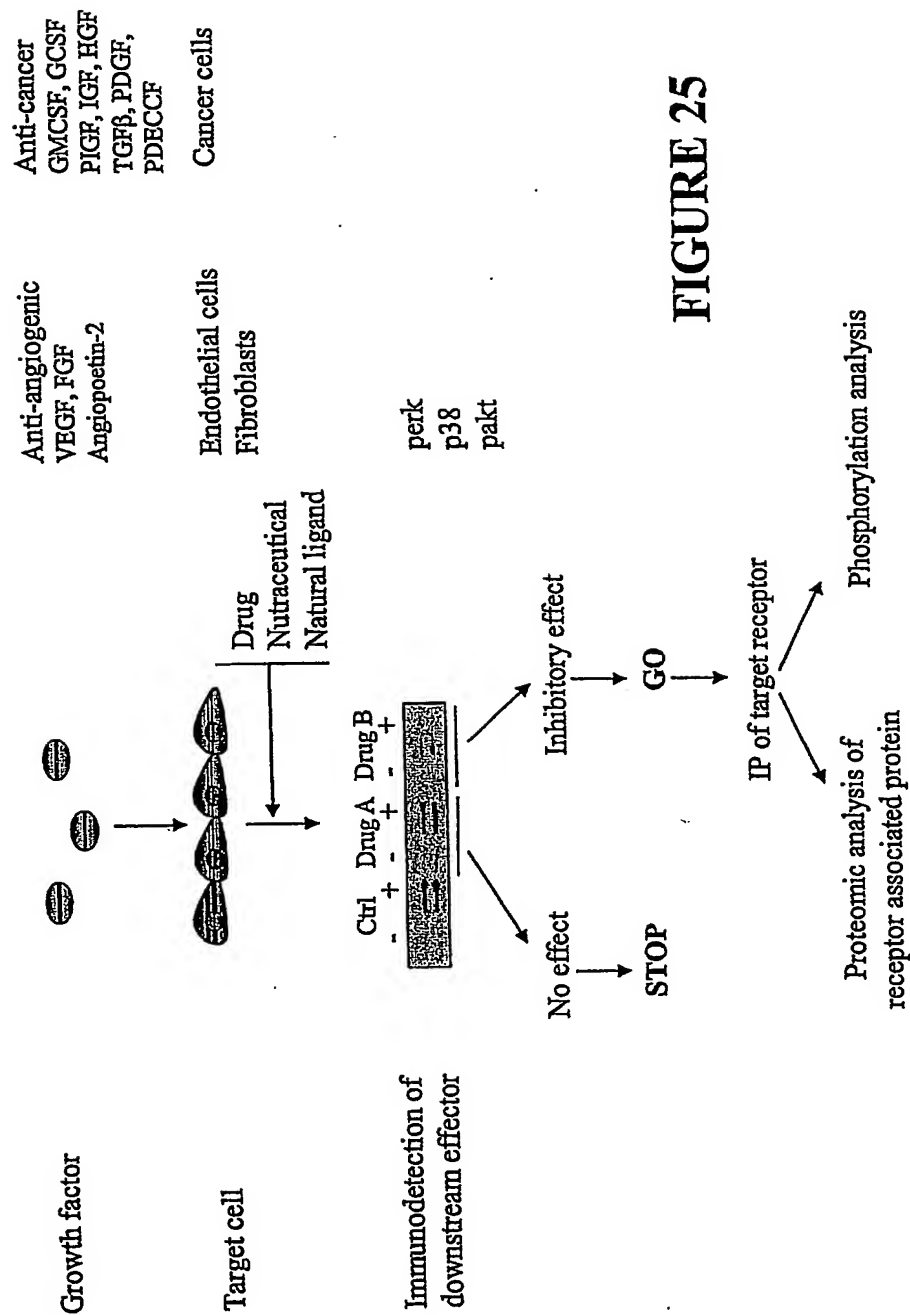


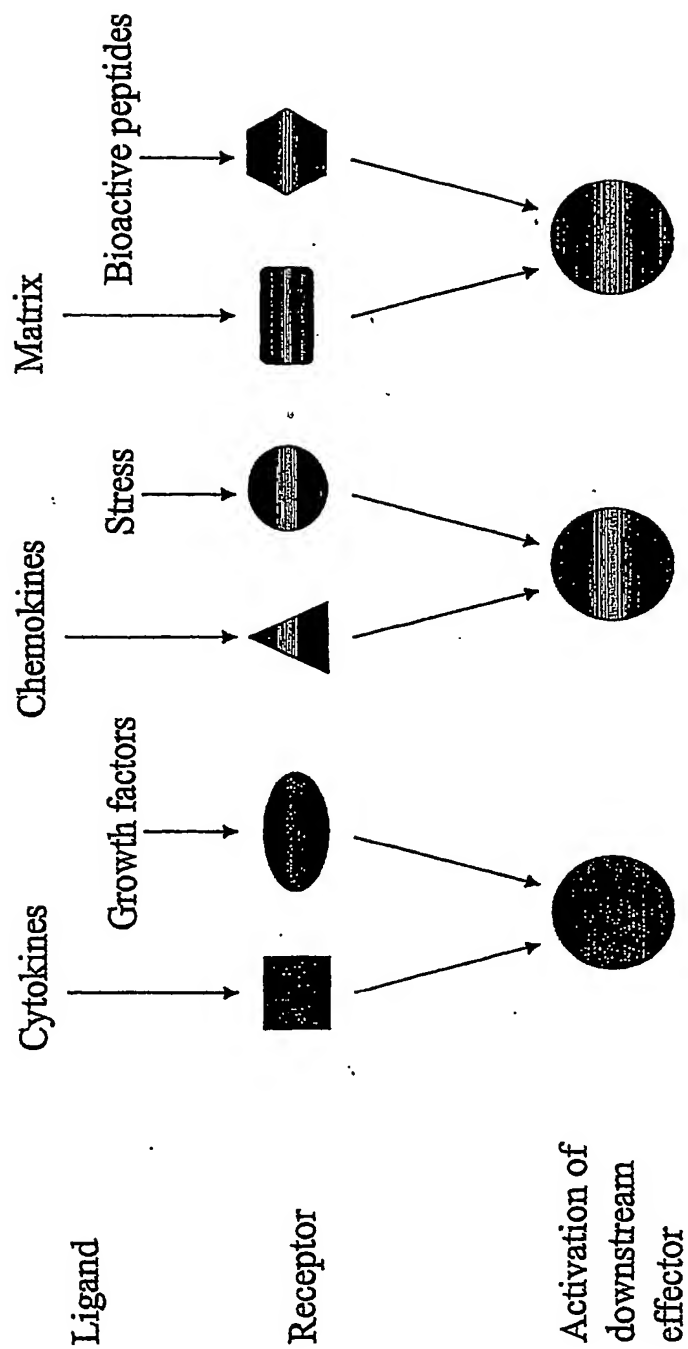
FIGURE 24

# High throughput screening of growth factor receptor inhibitors in cancer and angiogenesis



**FIGURE 25**

## Molecular screening of receptors antagonists

**FIGURE 26**